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December 31, 2018

VIA ELECTRONIC FILING

The Honorable Jocelyn G. Boyd
Chief Clerk/Administrator
Public Service Commission of South Carolina
101 Executive Center Drive, Suite 100
Columbia, South Carolina 29210

Re: **Duke Energy Progress, LLC – Monthly Fuel Report
Docket No. 2006-176-E**

Dear Ms. Boyd:

Pursuant to the Commission's Orders in Docket No. 1977-354-E, enclosed for filing is Duke Energy Progress, LLC's Monthly Fuel Report in Docket No. 2006-176-E for the month of November 2018.

Should you have any questions regarding this matter, please do not hesitate to contact me at 803-988-7130.

Sincerely,

A handwritten signature in blue ink, appearing to read "Rebecca Dulin", written in a cursive style.

Rebecca J. Dulin

Enclosure

cc: Service List

**Duke Energy Progress
Summary of Monthly Fuel Report**

Schedule 1

Line No.	Item	November 2018
1	Fuel and Fuel-related Costs excluding DERP incremental costs	\$ 127,227,431
	MWH sales:	
2	Total System Sales	5,218,595
3	Less intersystem sales	494,723
4	Total sales less intersystem sales	4,723,872
5	Total fuel and fuel-related costs (¢/KWH) (Line 1/Line 4)	2.6933
6	Current fuel & fuel-related cost component (¢/KWH) (per Schedule 4)	2.7048
	Generation Mix (MWH):	
	Fossil (By Primary Fuel Type):	
7	Coal	565,251
8	Oil	5,000
9	Natural Gas - Combustion Turbine	300,226
10	Natural Gas - Combined Cycle	1,591,778
11	Biogas	496
12	Total Fossil	2,462,751
13	Nuclear	2,098,291
14	Hydro - Conventional	69,416
15	Solar Distributed Generation	13,877
16	Total MWH generation	4,644,335

Note: Detail amounts may not add to totals shown due to rounding.

Schedule 2

**Duke Energy Progress
Details of Fuel and Fuel-Related Costs**

Description	November 2018
Fuel and Fuel-Related Costs:	
Steam Generation - Account 501	
0501110 coal consumed - steam	\$ 19,371,212
0501310 fuel oil consumed - steam	1,004,500
Total Steam Generation - Account 501	<u>20,375,712</u>
Nuclear Generation - Account 518	
0518100 burnup of owned fuel	14,082,897
Other Generation - Account 547	
0547000 natural gas consumed - Combustion Turbine	18,417,952
0547000 natural gas capacity - Combustion Turbine	2,463,930
0547000 natural gas consumed - Combined Cycle	35,565,813
0547000 natural gas capacity - Combined Cycle	8,946,743
0547106 biogas consumed - Combined Cycle	26,631
0547200 fuel oil consumed	511,531
Total Other Generation - Account 547	<u>65,932,600</u>
Purchased Power and Net Interchange - Account 555	
Fuel and fuel-related component of purchased power	41,719,673
Fuel and fuel-related component of DERP purchases	46,532
PURPA purchased power capacity	3,787,242
DERP purchased power capacity	13,826
Total Purchased Power and Net Interchange - Account 555	<u>45,567,273</u>
Less fuel and fuel-related costs recovered through intersystem sales - Account 447	19,823,403
Total Costs Included in Base Fuel Component	\$ 126,135,079
Environmental Costs	
0509030, 0509212, 0557451 emission allowance expense	\$ 943
0502020, 0502030, 0502040, 0502080, 0502090, 0548020 reagents expense	1,161,039
Emission Allowance Gains	-
Less reagents expense recovered through intersystem sales - Account 447	50,737
Less emissions expense recovered through intersystem sales - Account 447	18,893
Total Costs Included in Environmental Component	1,092,352
Fuel and Fuel-related Costs excluding DERP incremental costs	<u>\$ 127,227,431</u>
DERP Incremental Costs	254,058
Total Fuel and Fuel-related Costs	<u>\$ 127,481,489</u>

Notes: Detail amounts may not add to totals shown due to rounding.

**DUKE ENERGY PROGRESS
PURCHASED POWER AND INTERCHANGE
SOUTH CAROLINA**

NOVEMBER 2018

**Schedule 3, Purchases
Page 1 of 2**

Purchased Power	Total	Capacity	Non-capacity		
Marketers, Utilities, Other	\$	\$	mWh	Fuel \$	Non-fuel \$
Broad River Energy, LLC.	\$ 7,414,916	\$ 1,094,886	128,029	\$ 6,320,030	-
City of Fayetteville	664,195	353,400	2,702	310,795	-
Haywood EMC	29,050	29,050	-	-	-
NCEMC	3,468,255	1,842,673	33,347	1,625,582	-
PJM Interconnection, LLC.	520,607	-	14,683	520,607	-
Southern Company Services	5,130,613	899,808	103,563	4,230,805	-
DE Carolinas - Native Load Transfer	5,913,039	-	154,083	5,913,051	\$ (12)
DE Carolinas - Native Load Transfer Benefit	507,397	-	-	507,397	-
Energy Imbalance	128,159		2,772	123,119	5,040
Generation Imbalance	12,908		425	7,874	5,034
	\$ 23,789,139	\$ 4,219,817	439,604	\$ 19,559,260	\$ 10,062
Act 236 PURPA Purchases					
Renewable Energy	\$ 17,124,544	-	267,931	\$ 17,124,544	-
DERP Qualifying Facilities	60,358	-	1,228	60,358	-
Other Qualifying Facilities	8,823,111	-	163,310	8,823,111	-
	\$ 26,008,013	\$ -	432,469	\$ 26,008,013	\$ -
Total Purchased Power	\$ 49,797,152	\$ 4,219,817	872,073	\$ 45,567,273	\$ 10,062

NOTE: Detail amounts may not add to totals shown due to rounding.

DUKE ENERGY PROGRESS
INTERSYSTEM SALES*
SOUTH CAROLINA

NOVEMBER 2018

Schedule 3, Sales
Page 2 of 2

	Total	Capacity	Non-capacity		
Sales	\$	\$	mWh	Fuel \$	Non-fuel \$
Utilities:					
SC Public Service Authority - Emergency	\$ 103	-	-	-	\$ 103
Market Based:					
NCEMC Purchase Power Agreement	856,933	\$ 652,500	4,576	215,639	(11,206)
PJM Interconnection, LLC.	774	-	4	163	611
Other:					
DE Carolinas - Native Load Transfer Benefit	1,316,235	-	-	1,316,235	-
DE Carolinas - Native Load Transfer	19,287,088	-	490,117	18,360,996	926,092
Generation Imbalance	(3)	-	26	-	(3)
Total Intersystem Sales	\$ 21,461,130	\$ 652,500	494,723	\$ 19,893,033	\$ 915,597

* Sales for resale other than native load priority.

NOTE: Detail amounts may not add to totals shown due to rounding.

Duke Energy Progress
(Over) / Under Recovery of Fuel Costs
November 2018

Schedule 4
Page 1 of 3

Line No.			Total Residential	General Service Non-Demand	Demand	Lighting	Total
1	Actual System kWh sales	Input					4,723,872,382
2	DERP Net Metered kWh generation	Input					1,988,547
3	Adjusted System kWh sales	L1 + L2					4,725,860,929
4	Actual S.C. Retail kWh sales	Input	135,084,422	43,187,370	320,222,894	6,559,351	505,054,037
5	DERP Net Metered kWh generation	Input	767,709	23,924	1,196,913		1,988,547
6	Adjusted S.C. Retail kWh sales	L4 + L5	135,852,131	43,211,294	321,419,807	6,559,351	507,042,584
7	Actual S.C. Demand units (kw)	L32 / 31b *100			647,300		
Base fuel component of recovery - non-capacity							
8	Incurred System base fuel - non-capacity expense	Input					\$110,876,805
9	Eliminate avoided fuel benefit of S.C. net metering	Input					\$63,753
10	Adjusted Incurred System base fuel - non-capacity expense	L8 + L9					\$110,940,558
11	Adjusted Incurred System base fuel - non-capacity rate (¢/kWh)	L10 / L3 * 100					2.348
12	S.C. Retail portion of adjusted incurred system expense	L6 * L11 / 100	\$3,189,157	\$1,014,394	\$7,545,396	\$153,982	\$11,902,929
13	Assign 100 % of Avoided Fuel Benefit of S.C net metering	Input	(\$37,687)	(\$3,481)	(\$22,585)	\$0	(\$63,753)
14	S.C. Retail portion of incurred system expense	L12 + L13	\$3,151,470	\$1,010,913	\$7,522,811	\$153,982	\$11,839,176
15	Billed base fuel - non-capacity rate (¢/kWh) - Note 1	Input	2.367	2.366	2.366	2.366	2.366
16	Billed base fuel - non-capacity revenue	L4 * L15 /100	\$3,197,286	\$1,021,813	\$7,576,474	\$155,194	\$11,950,767
17	DERP NEM incentive - fuel component	Input	(\$10,006)	(\$924)	(\$5,996)	\$0	(\$16,926)
18	Adjusted S.C. billed base fuel - non-capacity revenue	L16 + L17	\$3,187,280	\$1,020,889	\$7,570,478	\$155,194	\$11,933,841
19	S.C. base fuel - non-capacity (over)/under recovery [See footnote]	L18 - L14	(\$35,810)	(\$9,976)	(\$47,667)	(\$1,212)	(\$94,665)
20	Adjustment	Input					
21	Total S.C. base fuel - non-capacity (over)/under recovery [See footnote]	L19 + L20	(\$35,810)	(\$9,976)	(\$47,667)	(\$1,212)	(\$94,665)
Base fuel component of recovery - capacity							
22a	Incurred base fuel - capacity rates by class (¢/kWh)	L23 / L4 * 100	0.711	0.205			
22b	Incurred base fuel - capacity rate (¢/kW)	L23 / L7 * 100			89		
23	Incurred S.C. base fuel - capacity expense	Input	\$960,532	\$88,733	\$575,624		\$1,624,889
24a	Billed base fuel - capacity rates by class (¢/kWh)	Input	0.676	0.426			
24b	Billed base fuel - capacity rate (¢/kW)	Input			88		
25	Billed S.C. base fuel - capacity revenue	L24a * L4 /100	\$913,319	\$183,978	\$ 572,929	\$0	\$1,670,226
26	S.C. base fuel - capacity (over)/under recovery [See footnote]	L25 - L23	\$47,213	(\$95,245)	\$2,695	\$0	(\$45,337)
27	Adjustment	Input	\$0	\$0	\$0	\$0	\$0
28	Total S.C. base fuel - capacity (over)/under recovery [See footnote]	L26 + L27	\$47,213	(\$95,245)	\$2,695	\$0	(\$45,337)
Environmental component of recovery							
29a	Incurred environmental rates by class (¢/kWh)	L30 / L4 * 100	0.051	0.015			
29b	Incurred environmental rate (¢/kW)	L30 / L7 * 100			6		
30	Incurred S.C. environmental expense	Input	\$69,038	\$6,378	\$41,373		\$116,789
31a	Billed environmental rates by class (¢/kWh)	Input	0.019	0.008			
31b	Billed environmental rate (¢/kW)	Input			1		
32	Billed S.C. environmental revenue	L31a * L4 /100	\$25,482	\$3,455	\$ 6,473		\$35,410
33	S.C. environmental (over)/under recovery [See footnote]	L32 - L30	\$43,556	\$2,923	\$34,900	\$0	\$81,379
34	Adjustment	Input					\$0
35	Total S.C. environmental (over)/under recovery [See footnote]	L33 + L34	\$43,556	\$2,923	\$34,900	\$0	\$81,379
Distributed Energy Resource Program component of recovery: avoided costs							
36a	Incurred S.C. DERP avoided cost rates by class (¢/kWh)	L37 / L4 * 100	0.003	0.001			
36b	Incurred S.C. DERP avoided cost rates by class (¢/kW)	L37 / L7 * 100			0.353		
37	Incurred S.C. DERP avoided cost expense	Input	\$3,815	\$352	\$2,286		\$6,453
38a	Billed S.C. DERP avoided cost rates by class (¢/kWh)	Input	0.003	0.001			
38b	Billed S.C. DERP avoided cost rates by class (¢/kW)	Input			0.000		
39	Billed S.C. DERP avoided cost revenue	L38a * L4 /100	\$4,023	\$432	\$0		\$4,455
40	S.C. DERP avoided cost (over)/under recovery [See footnote]	L39 - L37	(\$208)	(\$80)	\$2,286	\$0	\$1,998
41	Adjustment	Input	\$0	\$0	\$0	\$0	\$0
42	Total S.C. DERP avoided cost (over)/under recovery [See footnote]	L40 + L41	(\$208)	(\$80)	\$2,286	\$0	\$1,998
43	Total (over)/under recovery [See footnote]	L21 + L28 + L35 + L42	\$54,751	(\$102,378)	(\$7,786)	(\$1,212)	(\$56,625)

Duke Energy Progress
(Over) / Under Recovery of Fuel Costs
November 2018

Schedule 4
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Year 2018-2019

	Cumulative	Total Residential	General Service Non-Demand	Demand	Lighting	Total
Cumulative (over) / under recovery - BASE FUEL NON-CAPACITY						
Balance ending February 2018	\$23,394,223					
March 2018 - actual	23,722,902	\$105,966	\$14,137	\$203,204	\$5,372	\$328,679
April 2018 - actual	23,109,195	(170,943)	(23,111)	(411,945)	(7,708)	(613,707)
May 2018 - actual	23,830,285	191,924	30,025	488,780	10,361	721,090
June 2018 - actual	25,124,368	428,696	63,626	785,404	16,357	1,294,083
July 2018 - actual	24,946,484	(67,321)	(9,747)	(99,157)	(1,659)	(177,884)
August 2018 - actual	24,050,415	(311,321)	(46,740)	(528,335)	(9,673)	(896,069)
September 2018 - actual	24,878,029	299,793	45,472	471,998	10,351	827,614
October 2018 - actual	21,969,123	(837,198)	(131,238)	(1,906,421)	(34,049)	(2,908,906)
November 2018 - actual	21,874,458	(35,810)	(9,976)	(47,667)	(1,212)	(94,665)
_/2 December 2018 - forecast	19,826,086	(748,304)	(89,884)	(1,181,749)	(28,435)	(2,048,372)
_/2 January 2019 - forecast	18,597,495	(516,927)	(49,794)	(646,373)	(15,497)	(1,228,591)
_/2 February 2019 - forecast	17,138,956	(581,562)	(61,606)	(796,238)	(19,133)	(1,458,539)
_/2 March 2019 - forecast	15,232,542	(709,744)	(86,270)	(1,084,341)	(26,059)	(1,906,414)
_/2 April 2019 - forecast	11,638,855	(1,150,562)	(178,242)	(2,212,046)	(52,837)	(3,593,687)
_/2 May 2019 - forecast\	9,504,174	(602,133)	(112,282)	(1,387,182)	(33,084)	(2,134,681)
_/2 June 2019 - forecast	\$8,256,622	(\$400,984)	(\$62,211)	(\$766,130)	(\$18,227)	(\$1,247,552)

Year 2018-2019

	Cumulative	Total Residential	General Service Non-Demand	Demand	Lighting	Total
Cumulative (over) / under recovery - BASE FUEL CAPACITY						
Balance ending February 2018	\$1,622,067					
March 2018 - actual	1,523,528	\$79,187	(\$398)	(\$177,328)	\$0	(\$98,539)
April 2018 - actual	2,089,902	479,717	34,630	52,027	0	566,374
May 2018 - actual	2,445,242	379,717	16,470	(40,847)	0	355,340
June 2018 - actual	2,666,876	217,876	(2,152)	5,910	0	221,634
July 2018 - actual	2,857,544	88,083	(5,454)	108,039	0	190,668
August 2018 - actual	2,709,391	(174,287)	(21,437)	47,571	0	(148,153)
September 2018 - actual	2,361,078	(199,912)	(23,546)	(124,855)	0	(348,313)
October 2018 - actual	1,891,426	(303,466)	(34,886)	(131,300)	0	(469,652)
November 2018 - actual	1,846,089	47,213	(95,245)	2,695	0	(45,337)
_/2 December 2018 - forecast	1,358,773	(372,900)	(8,663)	(105,753)	0	(487,316)
_/2 January 2019 - forecast	518,711	(805,580)	(15,658)	(18,824)	0	(840,062)
_/2 February 2019 - forecast	(119,086)	(568,087)	(9,516)	(60,194)	0	(637,797)
_/2 March 2019 - forecast	(250,289)	(166,399)	11,044	24,152	0	(131,203)
_/2 April 2019 - forecast	23,792	119,328	10,394	144,359	0	274,081
_/2 May 2019 - forecast\	333,404	260,656	5,149	43,807	0	309,612
_/2 June 2019 - forecast	\$268,747	(\$26,033)	(\$2,734)	(\$35,890)	\$0	(\$64,657)

Year 2018-2019

	Cumulative	Total Residential	General Service Non-Demand	Demand	Lighting	Total
Cumulative (over) / under recovery - ENVIRONMENTAL						
Balance ending February 2018	(\$616,504)					
March 2018 - actual	(648,397)	(\$9,388)	(\$802)	(\$21,703)	\$0	(\$31,893)
April 2018 - actual	(646,907)	10,886	939	(10,335)	0	1,490
May 2018 - actual	(644,440)	13,284	519	(11,336)	0	2,467
June 2018 - actual	(578,713)	44,416	3,379	17,932	0	65,727
July 2018 - actual	(485,932)	52,174	4,953	35,654	0	92,781
August 2018 - actual	(331,044)	82,556	8,644	63,688	0	154,888
September 2018 - actual	(243,057)	43,796	5,046	39,145	0	87,987
October 2018 - actual	(185,125)	26,868	3,296	27,768	0	57,932
November 2018 - actual	(103,746)	43,556	2,923	34,900	0	81,379
_/2 December 2018 - forecast	(68,322)	11,304	2,674	21,446	0	35,424
_/2 January 2019 - forecast	162,149	121,347	13,802	95,322	0	230,471
_/2 February 2019 - forecast	353,727	101,144	11,454	78,980	0	191,578
_/2 March 2019 - forecast	357,662	(7,592)	971	10,556	0	3,935
_/2 April 2019 - forecast	329,027	(24,804)	(1,314)	(2,517)	0	(28,635)
_/2 May 2019 - forecast\	336,797	(720)	418	8,072	0	7,770
_/2 June 2019 - forecast	\$390,667	\$24,362	\$3,264	\$26,244	\$0	\$53,870

Year 2018-2019

	Cumulative	Total Residential	General Service Non-Demand	Demand	Lighting	Total
Cumulative (over) / under recovery - DERP AVOIDED COSTS						
Balance ending February 2018	\$2,713					
March 2018 - actual	7,033	\$2,554	\$236	\$1,530	\$0	\$4,320
April 2018 - actual	14,508	4,419	408	2,648	0	7,475
May 2018 - actual	21,181	3,945	364	2,364	0	6,673
June 2018 - actual	23,496	1,368	127	820	0	2,315
July 2018 - actual	26,569	755	189	2,129	0	3,073
August 2018 - actual	36,281	3,500	568	5,644	0	9,712
September 2018 - actual	39,362	(348)	203	3,226	0	3,081
October 2018 - actual	32,433	(5,959)	(354)	(616)	0	(6,929)
November 2018 - actual	34,431	(208)	(80)	2,286	0	1,998
_/2 December 2018 - forecast	34,267	(2,374)	98	2,112	0	(164)
_/2 January 2019 - forecast	32,173	(4,232)	81	2,057	0	(2,094)
_/2 February 2019 - forecast	31,155	(3,213)	96	2,099	0	(1,018)
_/2 March 2019 - forecast	30,965	(2,451)	99	2,162	0	(190)
_/2 April 2019 - forecast	32,087	(1,272)	103	2,291	0	1,122
_/2 May 2019 - forecast\	33,776	(619)	87	2,221	0	1,689
_/2 June 2019 - forecast	\$34,089	(\$1,811)	\$61	\$2,063	\$0	\$313

Duke Energy Progress
(Over) / Under Recovery of Fuel Costs
November 2018

Schedule 4
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Line No.			Residential	Commercial	Industrial	Total
Distributed Energy Resource Program component of recovery: incremental costs						
44	Incurred S.C. DERP incremental expense	Input	\$150,183	\$59,600	\$44,275	\$254,058
45	Billed S.C. DERP incremental rates by account (\$/account)	Input	0.72	1.26	99.55	
46	Billed S.C. DERP incremental revenue	Input	\$99,012	\$40,272	\$25,680	\$164,964
47	S.C. DERP incremental (over)/under recovery [See footnote]	L44 - L46	\$51,171	\$19,328	\$18,595	\$89,094
48	Adjustment	Input				
49	Total S.C. DERP incremental (over)/under recovery [See footnote]	L47 + L48	\$51,171	\$19,328	\$18,595	\$89,094

Year 2018-2019

Cumulative (over) / under recovery

Balance ending February 2018

March 2018 - actual

April 2018 - actual

May 2018 - actual

June 2018 - actual

July 2018 - actual

August 2018 - actual

September 2018 - actual

October 2018 - actual

November 2018 - actual

_/2 December 2018 - forecast

_/2 January 2019 - forecast

_/2 February 2019 - forecast

_/2 March 2019 - forecast

_/2 April 2019 - forecast

_/2 May 2019 - forecast

_/2 June 2019 - forecast

Cumulative	Total
(\$448,552)	
(541,339)	(\$92,787)
(634,011)	(92,672)
(707,644)	(73,633)
(702,927)	4,717
(661,166)	41,761
(600,348)	60,818
(518,066)	82,282
(452,317)	65,749
(363,223)	89,094
(267,185)	96,038
(154,376)	112,809
(34,898)	119,478
100,581	135,479
249,294	148,713
405,076	155,782
\$568,808	\$163,732

Notes:

Detail amounts may not recalculate due to percentages presented as rounded.

Presentation of over or under collected amounts reflects a regulatory asset or liability. Over collections, or regulatory liabilities, are shown as negative amounts.

Under collections, or regulatory assets, are shown as positive amounts.

_/1 Total residential billed fuel rate is a composite rate reflecting the approved residential rate of 2.384 and RECD 5% discount.

_/2 Forecast amounts based on low end of range of expected fuel rates.

Duke Energy Progress
Fuel and Fuel Related Cost Report
November 2018

Schedule 5
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Description	Weatherspoon CT	Lee CC	Sutton CC/CT	Robinson Nuclear	Asheville Steam	Asheville CT	Roxboro Steam	Mayo Steam
Cost of Fuel Purchased (\$)								
Coal	-	-	-	-	\$4,779,587	-	\$10,445,508	\$6,089,981
Oil	-	-	-	119,466	1,603,813	-	921,975	34,249
Gas - CC	-	21,664,256	7,393,850	-	-	-	-	-
Gas - CT	24	-	926,807	-	-	305,251	-	-
Biogas	-	-	-	-	-	-	-	-
Total	24	\$21,664,256	\$8,320,657	119,466	\$6,383,400	\$305,251	\$11,367,483	\$6,124,230
Average Cost of Fuel Purchased (¢/MBTU)								
Coal	-	-	-	-	334.59	-	367.51	338.64
Oil	-	-	-	1,154.04	1,647.05	-	1,652.20	1,656.14
Gas - CC	-	444.04	668.25	-	-	-	-	-
Gas - CT	-	-	465.08	-	-	612.17	-	-
Biogas	-	-	-	-	-	-	-	-
Weighted Average	-	444.04	637.25	1,154.04	418.34	612.17	392.25	340.16
Cost of Fuel Burned (\$)								
Coal	-	-	-	-	\$5,716,757	-	\$13,654,455	-
Oil - CC	-	-	-	-	-	-	-	-
Oil - Steam/CT	6,018	-	-	-	77,737	101,836	795,509	131,254
Gas - CC	-	21,664,256	7,393,850	-	-	-	-	-
Gas - CT	24	-	926,807	-	-	305,251	-	-
Biogas	-	-	-	-	-	-	-	-
Nuclear	-	-	-	218,160	-	-	-	-
Total	\$6,042	\$21,664,256	\$8,320,657	\$218,160	\$5,794,494	\$407,087	\$14,449,964	\$131,254
Average Cost of Fuel Burned (¢/MBTU)								
Coal	-	-	-	-	327.08	-	334.92	-
Oil - CC	-	-	-	-	-	-	-	-
Oil - Steam/CT	1,600.53	-	-	-	1,599.20	1,599.18	1,633.59	1,559.95
Gas - CC	-	444.04	668.25	-	-	-	-	-
Gas - CT	-	-	465.08	-	-	612.17	-	-
Biogas	-	-	-	-	-	-	-	-
Nuclear	-	-	-	91.58	-	-	-	-
Weighted Average	1,606.91	444.04	637.25	91.58	330.61	723.94	350.25	1,559.95
Average Cost of Generation (¢/kWh)								
Coal	-	-	-	-	3.87	-	3.27	-
Oil - CC	-	-	-	-	-	-	-	-
Oil - Steam/CT	-	-	-	-	18.89	23.68	16.64	-
Gas - CC	-	3.16	7.02	-	-	-	-	-
Gas - CT	-	-	4.71	-	-	8.22	-	-
Biogas	-	-	-	-	-	-	-	-
Nuclear	-	-	-	2.39	-	-	-	-
Weighted Average	-	3.16	6.66	2.39	3.91	9.83	3.42	-
Burned MBTU's								
Coal	-	-	-	-	1,747,822	-	4,076,935	-
Oil - CC	-	-	-	-	-	-	-	-
Oil - Steam/CT	376	-	-	-	4,861	6,368	48,697	8,414
Gas - CC	-	4,878,905	1,106,445	-	-	-	-	-
Gas - CT	-	-	199,278	-	-	49,864	-	-
Biogas	-	-	-	-	-	-	-	-
Nuclear	-	-	-	238,225	-	-	-	-
Total	376	4,878,905	1,305,723	238,225	1,752,683	56,232	4,125,632	8,414
Net Generation (mWh)								
Coal	-	-	-	-	147,663	-	417,588	-
Oil - CC	-	-	-	-	-	-	-	-
Oil - Steam/CT	(27)	-	-	-	412	430	4,780	(2,286)
Gas - CC	-	686,290	105,334	-	-	-	-	-
Gas - CT	(37)	-	19,660	-	-	3,712	-	-
Biogas	-	-	-	-	-	-	-	-
Nuclear	-	-	-	9,127	-	-	-	-
Hydro (Total System)								
Solar (Total System)								
Total	(64)	686,290	124,994	9,127	148,075	4,142	422,368	(2,286)
Cost of Reagents Consumed (\$)								
Ammonia	-	-	-	-	-	-	-	-
Limestone	-	-	-	-	256,978	-	568,002	532
Re-emission Chemical	-	-	-	-	-	-	-	-
Sorbents	-	-	-	-	10,330	-	144,075	-
Urea	-	-	-	-	145,801	-	-	-
Total	-	-	-	-	\$413,109	-	\$712,077	\$532

Notes:

Detail amounts may not add to totals shown due to rounding.
Schedule excludes in-transit, terminal and tolling agreement activity.
Cents/MBTU and cents/kWh are not computed when costs and/or net generation is negative.
Lee and Wayne oil burn is associated with inventory consumption shown on Schedule 6 for Wayne.

Duke Energy Progress
Fuel and Fuel Related Cost Report
November 2018

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Description	Brunswick Nuclear	Blewett CT	Wayne County CT	Darlington CT	Smith Energy Complex CC/CT	Harris Nuclear	Current Month	Total 12 ME November 2018
Cost of Fuel Purchased (\$)								
Coal	-	-	-	-	-	-	\$21,315,076	\$260,772,433
Oil	5,190	-	804	-	326,783	12,759	3,025,039	80,460,119
Gas - CC	-	-	-	-	15,454,450	-	44,512,556	660,714,579
Gas - CT	-	-	1,505,750	308,869	17,835,181	-	20,881,882	179,423,496
Biogas	-	-	-	-	90,403	-	90,403	483,456
Total	5,190	-	\$1,506,554	\$308,869	\$33,616,414	12,759	\$89,824,956	\$1,181,854,083
Average Cost of Fuel Purchased (¢/MBTU)								
Coal	-	-	-	-	-	-	351.21	328.79
Oil	-	-	-	-	1,658.22	1,231.56	1,623.39	1,712.21
Gas - CC	-	-	-	-	414.88	-	458.40	473.58
Gas - CT	-	-	458.29	470.65	400.77	-	409.97	363.76
Biogas	-	-	-	-	2,932.31	-	2,932.31	2,926.84
Weighted Average	-	-	458.54	470.65	411.16	1,231.56	426.47	433.12
Cost of Fuel Burned (\$)								
Coal	-	-	-	-	-	-	\$19,371,212	\$304,701,015
Oil - CC	-	-	-	-	182	-	182	2,021
Oil - Steam/CT	-	1,743	326,841	-	74,911	-	1,515,849	75,497,573
Gas - CC	-	-	-	-	15,454,450	-	44,512,556	660,714,579
Gas - CT	-	-	1,505,750	308,869	17,835,181	-	20,881,882	179,423,496
Biogas	-	-	-	-	90,403	-	90,403	483,456
Nuclear	8,744,506	-	-	-	-	4,702,747	13,665,413	185,553,711
Total	\$8,744,506	\$1,743	\$1,832,591	\$308,869	\$33,455,127	\$4,702,747	\$100,037,497	\$1,406,375,851
Average Cost of Fuel Burned (¢/MBTU)								
Coal	-	-	-	-	-	-	332.57	321.64
Oil - CC	-	-	-	-	1,654.55	-	1,654.55	1,656.56
Oil - Steam/CT	-	1,675.50	1,742.78	-	1,662.47	-	1,646.23	1,682.09
Gas - CC	-	-	-	-	414.88	-	458.40	473.58
Gas - CT	-	-	458.29	470.65	400.77	-	409.97	363.76
Biogas	-	-	-	-	2,932.31	-	2,932.31	2,926.84
Nuclear	60.93	-	-	-	-	64.95	62.59	64.10
Weighted Average	60.93	1,675.50	527.65	470.65	408.84	64.95	235.08	243.50
Average Cost of Generation (¢/kWh)								
Coal	-	-	-	-	-	-	3.43	3.52
Oil - CC	-	-	-	-	18.20	-	18.20	20.21
Oil - Steam/CT	-	-	21.65	-	18.01	-	30.32	21.09
Gas - CC	-	-	-	-	1.93	-	2.80	3.35
Gas - CT	-	-	5.31	5.82	7.33	-	6.96	4.20
Biogas	-	-	-	-	18.23	-	18.23	21.44
Nuclear	0.64	-	-	-	-	0.65	0.65	0.67
Weighted Average	0.64	-	6.13	6.05	3.20	0.65	2.15	2.29
Burned MBTU's								
Coal	-	-	-	-	-	-	5,824,757	94,734,968
Oil - CC	-	-	-	-	11	-	11	122
Oil - Steam/CT	-	104	18,754	-	4,506	-	92,080	4,488,309
Gas - CC	-	-	-	-	3,725,084	-	9,710,434	139,514,281
Gas - CT	-	-	328,558	65,626	4,450,197	-	5,093,523	49,324,765
Biogas	-	-	-	-	3,083	-	3,083	16,518
Nuclear	14,352,491	-	-	-	-	7,240,924	21,831,640	289,497,878
Total	14,352,491	104	347,312	65,626	8,182,881	7,240,924	42,555,528	577,576,841
Net Generation (MWh)								
Coal	-	-	-	-	-	-	565,251	8,644,229
Oil - CC	-	-	-	-	1	-	1	10
Oil - Steam/CT	-	(36)	1,510	(199)	416	-	4,999	358,007
Gas - CC	-	-	-	-	800,154	-	1,591,778	19,743,044
Gas - CT	-	-	28,362	5,306	243,222	-	300,226	4,269,348
Biogas	-	-	-	-	496	-	496	2,255
Nuclear	1,368,000	-	-	-	-	721,164	2,098,291	27,520,188
Hydro (Total System)							69,416	750,778
Solar (Total System)							13,877	236,534
Total	1,368,000	(36)	29,872	5,107	1,044,289	721,164	4,644,335	61,524,393
Cost of Reagents Consumed (\$)								
Ammonia	-	-	-	-	\$35,322	-	\$35,322	\$1,890,446
Limestone	-	-	-	-	-	-	825,512	10,673,650
Re-emission Chemical	-	-	-	-	-	-	-	170,839
Sorbents	-	-	-	-	-	-	154,405	2,909,797
Urea	-	-	-	-	-	-	145,801	1,173,308
Total	-	-	-	-	\$35,322	-	\$1,161,039	\$16,818,040

Duke Energy Progress
Fuel & Fuel-related Consumption and Inventory Report
November 2018

Schedule 6
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Description	Weatherspoon	Lee	Sutton	Robinson	Asheville
Coal Data:					
Beginning balance	-	-	-	-	75,943
Tons received during period	-	-	-	-	56,494
Inventory adjustments	-	-	-	-	-
Tons burned during period	-	-	-	-	68,774
Ending balance	-	-	-	-	63,663
MBTUs per ton burned	-	-	-	-	25.41
Cost of ending inventory (\$/ton)	-	-	-	-	83.12
Oil Data:					
Beginning balance	673,141	-	2,632,614	78,040	2,421,077
Gallons received during period	-	-	-	75,016	705,616
Miscellaneous use and adjustments	-	-	-	-	(5,022)
Gallons burned during period	2,687	-	-	75,016	81,654
Ending balance	670,454	-	2,632,614	78,040	3,040,017
Cost of ending inventory (\$/gal)	2.24	-	2.80	2.36	2.20
Natural Gas Data:					
Beginning balance	-	-	-	-	-
MCF received during period	-	4,717,365	1,270,423	-	48,255
MCF burned during period	-	4,717,365	1,270,423	-	48,255
Ending balance	-	-	-	-	-
Biogas Data:					
Beginning balance	-	-	-	-	-
MCF received during period	-	-	-	-	-
MCF burned during period	-	-	-	-	-
Ending balance	-	-	-	-	-
Limestone/Lime Data:					
Beginning balance	-	-	-	-	6,274
Tons received during period	-	-	-	-	6,187
Inventory adjustments	-	-	-	-	-
Tons consumed during period	-	-	-	-	4,888
Ending balance	-	-	-	-	7,573
Cost of ending inventory (\$/ton)	-	-	-	-	51.39

Notes:

Detail amounts may not add to totals shown due to rounding.

Schedule excludes in-transit, terminal and tolling agreement activity.

Gas is burned as received; therefore, inventory balances are not maintained.

The oil inventory data for Wayne reflects the common usage of the oil tank used for both Wayne and Lee units.

Duke Energy Progress
Fuel & Fuel-related Consumption and Inventory Report
November 2018

Schedule 6
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Description	Roxboro	Mayo	Brunswick	Blewett	Wayne County
Coal Data:					
Beginning balance	948,698	198,539	-	-	-
Tons received during period	110,895	73,775	-	-	-
Inventory adjustments	-	-	-	-	-
Tons burned during period	162,277	-	-	-	-
Ending balance	897,316	272,314	-	-	-
MBTUs per ton burned	25.12	-	-	-	-
Cost of ending inventory (\$/ton)	84.12	81.58	-	-	-
Oil Data:					
Beginning balance	183,240	274,860	175,135	807,927	12,193,709
Gallons received during period	404,367	14,988	-	-	-
Miscellaneous use and adjustments	(14,998)	(1,875)	-	-	-
Gallons burned during period	351,807	60,882	6,660	737	136,148
Ending balance	220,802	227,091	168,475	807,190	12,057,561
Cost of ending inventory (\$/gal)	2.26	2.16	2.36	2.37	2.40
Natural Gas Data:					
Beginning balance	-	-	-	-	-
MCF received during period	-	-	-	-	317,800
MCF burned during period	-	-	-	-	317,800
Ending balance	-	-	-	-	-
Biogas Data:					
Beginning balance	-	-	-	-	-
MCF received during period	-	-	-	-	-
MCF burned during period	-	-	-	-	-
Ending balance	-	-	-	-	-
Limestone/Lime Data:					
Beginning balance	96,766	16,767	-	-	-
Tons received during period	7,029	-	-	-	-
Inventory adjustments	-	-	-	-	-
Tons consumed during period	13,041	3	-	-	-
Ending balance	90,754	16,764	-	-	-
Cost of ending inventory (\$/ton)	41.94	52.42	-	-	-

Duke Energy Progress
Fuel & Fuel-related Consumption and Inventory Report
November 2018

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Description	Darlington	Smith Energy Complex	Harris	Current Month	Total 12 ME November 2018
Coal Data:					
Beginning balance	-	-	-	1,223,180	1,825,656
Tons received during period	-	-	-	241,164	3,145,191
Inventory adjustments	-	-	-	-	24,990
Tons burned during period	-	-	-	231,051	3,762,544
Ending balance	-	-	-	1,233,293	1,233,293
MBTUs per ton burned	-	-	-	25.21	25.18
Cost of ending inventory (\$/ton)	-	-	-	83.51	83.51
Oil Data:					
Beginning balance	10,629,342	8,233,196	292,021	38,594,302	38,045,647
Gallons received during period	-	142,803	7,505	1,350,295	34,052,068
Miscellaneous use and adjustments	-	-	-	(21,895)	(192,885)
Gallons burned during period	-	32,261	7,501	755,353	32,737,481
Ending balance	10,629,342	8,343,738	292,025	39,167,349	39,167,349
Cost of ending inventory (\$/gal)	2.39	2.33	2.36	2.39	2.39
Natural Gas Data:					
Beginning balance	-	-	-	-	-
MCF received during period	64,151	7,961,753	-	14,379,747	183,700,503
MCF burned during period	64,151	7,961,753	-	14,379,747	183,700,503
Ending balance	-	-	-	-	-
Biogas Data:					
Beginning balance	-	-	-	-	-
MCF received during period	-	3,003	-	3,003	16,094
MCF burned during period	-	3,003	-	3,003	16,094
Ending balance	-	-	-	-	-
Limestone/Lime Data:					
Beginning balance	-	-	-	119,807	138,161
Tons received during period	-	-	-	13,216	207,228
Inventory adjustments	-	-	-	-	14,692
Tons consumed during period	-	-	-	17,932	244,990
Ending balance	-	-	-	115,091	115,091
Cost of ending inventory (\$/ton)	-	-	-	44.09	44.09

Schedule 7

**DUKE ENERGY PROGRESS
ANALYSIS OF COAL PURCHASED
NOVEMBER 2018**

STATION	TYPE	QUANTITY OF TONS DELIVERED	DELIVERED COST	DELIVERED COST PER TON
ASHEVILLE	SPOT	11,711	\$ 1,115,956	\$ 95.29
	CONTRACT	44,783	3,567,604	79.67
	ADJUSTMENTS	-	96,028	-
	TOTAL	56,494	4,779,587	84.60
MAYO	SPOT	-	-	-
	CONTRACT	73,775	5,984,467	81.12
	ADJUSTMENTS	-	105,514	-
	TOTAL	73,775	6,089,981	82.55
ROXBORO	SPOT	62,466	5,933,241	94.98
	CONTRACT	48,429	3,914,358	80.83
	ADJUSTMENTS	-	597,908	-
	TOTAL	110,895	10,445,508	94.19
ALL PLANTS	SPOT	74,177	7,049,197	95.03
	CONTRACT	166,987	13,466,429	80.64
	ADJUSTMENTS	-	799,450	-
	TOTAL	241,164	\$ 21,315,076	\$ 88.38

Schedule 8

**DUKE ENERGY PROGRESS
ANALYSIS OF COAL QUALITY RECEIVED
NOVEMBER 2018**

STATION	PERCENT MOISTURE	PERCENT ASH	HEAT VALUE	PERCENT SULFUR
ASHEVILLE	6.65	9.32	12,643	2.51
MAYO	8.48	9.77	12,188	1.52
ROXBORO	6.42	8.79	12,815	2.25

Schedule 9

**DUKE ENERGY PROGRESS
ANALYSIS OF OIL PURCHASED
NOVEMBER 2018**

	ASHEVILLE	HARRIS	MAYO
VENDOR	Indigo	Hightowers Petroleum Co.	Greensboro Tank Farm
SPOT/CONTRACT	Contract	Contract	Contract
SULFUR CONTENT %	0	0	0
GALLONS RECEIVED	705,616	7,505	14,988
TOTAL DELIVERED COST	\$ 1,603,813	\$ 12,759	\$ 34,249
DELIVERED COST/GALLON	\$ 2.27	\$ 1.70	\$ 2.29
BTU/GALLON	138,000	138,000	138,000
	ROBINSON	ROXBORO	SMITH ENERGY COMPLEX
VENDOR	Hightowers Petroleum Co.	Greensboro Tank Farm	Petroleum Traders
SPOT/CONTRACT	Contract	Contract	Spot
SULFUR CONTENT %	0	0	0
GALLONS RECEIVED	75,016	404,367	142,803
TOTAL DELIVERED COST	\$ 119,466	\$ 921,975	\$ 326,783
DELIVERED COST/GALLON	\$ 1.59	\$ 2.28	\$ 2.29
BTU/GALLON	138,000	138,000	138,000

Notes:

A price adjustment of \$5,190 for the Brunswick station and 2018 Q1 shipment adjustments of \$804 for the Wayne station are excluded.

Duke Energy Progress
Power Plant Performance Data
Twelve Month Summary
December, 2017 - November, 2018
Nuclear Units

<u>Unit Name</u>	<u>Net Generation (mWh)</u>	<u>Capacity Rating (mW)</u>	<u>Capacity Factor (%)</u>	<u>Equivalent Availability (%)</u>
Brunswick 1	7,089,436	938	86.28	89.10
Brunswick 2	7,569,193	932	92.71	95.50
Harris 1	7,565,283	932	92.70	89.02
Robinson 2	5,296,276	741	81.59	78.82

**Duke Energy Progress
Power Plant Performance Data
Twelve Month Summary
December, 2017 through November, 2018
Combined Cycle Units**

Unit Name		Net Generation (mWh)	Capacity Rating (mW)	Capacity Factor (%)	Equivalent Availability (%)
Lee Energy Complex	1A	1,464,203	225	74.34	82.04
Lee Energy Complex	1B	1,464,846	227	73.80	81.85
Lee Energy Complex	1C	1,487,692	228	74.62	81.85
Lee Energy Complex	ST1	2,903,825	379	87.46	94.67
Lee Energy Complex	Block Total	7,320,566	1,058	78.99	86.46
Richmond County CC	7	1,275,994	189	77.07	84.15
Richmond County CC	8	1,266,977	189	76.52	83.61
Richmond County CC	ST4	1,420,265	175	92.65	92.31
Richmond County CC	9	1,482,101	216	78.39	83.37
Richmond County CC	10	1,493,192	216	78.98	83.81
Richmond County CC	ST5	1,953,634	248	89.93	94.13
Richmond County CC	Block Total	8,892,163	1,233	82.35	87.03
Sutton Energy Complex	1A	1,124,189	224	57.27	69.36
Sutton Energy Complex	1B	1,137,020	224	57.92	67.35
Sutton Energy Complex	ST1	1,271,372	271	53.62	65.57
Sutton Energy Complex	Block Total	3,532,581	719	56.10	67.29

Notes:

- Units in commercial operation for the full month are presented. Pre-commercial or partial month commercial operations are not included.

**Duke Energy Progress
Power Plant Performance Data
Twelve Month Summary
December, 2017 through November, 2018**

Intermediate Steam Units

Unit Name	Net Generation (mWh)	Capacity Rating (mW)	Capacity Factor (%)	Equivalent Availability (%)
Mayo 1	1,462,376	746	22.38	71.53
Roxboro 2	1,896,507	673	32.17	77.68
Roxboro 3	1,539,629	698	25.18	61.09
Roxboro 4	1,631,200	711	26.19	53.00

Notes:

- Units in commercial operation for the full month are presented. Pre-commercial or partial month commercial operations are not included.

**Duke Energy Progress
Power Plant Performance Data
Twelve Month Summary
December, 2017 through November, 2018
Other Cycling Steam Units**

Unit Name	Net Generation (mWh)	Capacity Rating (mW)	Capacity Factor (%)	Operating Availability (%)
Asheville 1	686,864	192	40.84	91.71
Asheville 2	577,380	192	34.33	95.31
Roxboro 1	906,122	380	27.22	91.52

Notes:

- Units in commercial operation for the full month are presented. Pre-commercial or partial month commercial operations are not included.

**Duke Energy Progress
Power Plant Performance Data
Twelve Month Summary
December, 2017 through November, 2018
Combustion Turbine Stations**

Station Name	Net Generation (mWh)	Capacity Rating (mW)	Operating Availability (%)
Asheville CT	505,569	370	77.48
Blewett CT	191	68	92.78
Darlington CT	233,775	846	75.11
Richmond County CT	3,137,888	933	84.28
Sutton Fast Start CT	234,929	97	87.35
Wayne County CT	457,429	963	95.96
Weatherspoon CT	1,723	164	97.17

Notes:

- Units in commercial operation for the full month are presented. Pre-commercial or partial month commercial operations are not included.

**Duke Energy Progress
Power Plant Performance Data**

Schedule 10
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**Twelve Month Summary
December, 2017 through November, 2018
Hydroelectric Stations**

Station Name	Net Generation (mWh)	Capacity Rating (mW)	Operating Availability (%)
Blewett	92,918	27.0	77.74
Marshall	1,509	4.0	11.57
Tillery	204,153	84.0	91.86
Walters	452,198	113.0	92.01

Notes:

- Units in commercial operation for the full month are presented. Pre-commercial or partial month commercial operations are not included.